

## West Bengal Joint Entrance Examination (WBJEE) - Overview

The [West Bengal Joint Entrance Examination \(WBJEE\)](#) is a state-level entrance examination conducted for admission to various undergraduate courses in engineering, pharmacy, and architecture. The syllabus for WBJEE is divided into three subjects: Mathematics, Physics, and Chemistry. In this blog post, we will discuss the subject-wise syllabus for WBJEE in detail.

### WBJEE Mathematics Syllabus :-

Mathematics is an important subject in the WBJEE exam, and the syllabus for Mathematics is vast. The Mathematics syllabus is divided into two parts: Algebra and Trigonometry, and Calculus.

**Algebra and Trigonometry:** The Algebra and Trigonometry section of the Mathematics syllabus includes topics such as sets, relations and functions, complex numbers, quadratic equations, sequences and series, permutations and combinations, binomial theorem, matrices and determinants, trigonometric functions, inverse trigonometric functions, properties of triangles, heights and distances.

**Calculus:** The Calculus section of the Mathematics syllabus includes topics such as limit, continuity, and differentiability, application of derivatives, indefinite integrals, definite integrals, differential equations, and vectors.

### WBJEE Physics Syllabus :-

The Physics syllabus for WBJEE covers a wide range of topics from mechanics to modern physics. The Physics syllabus is divided into two parts: General Physics and Modern Physics.

**General Physics:** The General Physics section of the Physics syllabus includes topics such as units and measurements, kinematics, laws of motion, work, energy and power, rotational motion, gravitation, properties of solids and liquids, thermodynamics, kinetic theory of gases, oscillations and waves, and electrostatics.

**Modern Physics:** The Modern Physics section of the Physics syllabus includes topics such as atomic physics, nuclear physics, semiconductor devices, electromagnetic waves, and communication systems.

### **WBJEE Chemistry Syllabus :-**

The Chemistry syllabus for WBJEE is divided into three parts: Physical Chemistry, Inorganic Chemistry, and Organic Chemistry.

**Physical Chemistry:** The Physical Chemistry section of the Chemistry syllabus includes topics such as mole concept and stoichiometry, atomic structure, chemical bonding and molecular structure, states of matter, solutions, thermodynamics, chemical equilibrium, redox reactions and electrochemistry, chemical kinetics, and surface chemistry.

**Inorganic Chemistry:** The Inorganic Chemistry section of the Chemistry syllabus includes topics such as periodicity and properties of elements, hydrogen, s-block elements (alkali and alkaline earth metals), p-block elements, d-block and f-block elements, coordination compounds, and metallurgy.

**Organic Chemistry:** The Organic Chemistry section of the Chemistry syllabus includes topics such as basic concepts of organic chemistry, hydrocarbons, organic compounds containing halogens, organic compounds containing oxygen, organic compounds containing nitrogen, polymers, and biomolecules.

In conclusion, the [WBJEE syllabus](#) covers a wide range of topics in Mathematics, Physics, and Chemistry. Students preparing for the WBJEE exam need to have a thorough understanding of each subject and should practice a lot of problems to excel in the exam. It is recommended that students should refer to the official WBJEE website for the latest syllabus and exam pattern updates and should also refer to the previous year's question papers to understand the exam pattern and the type of questions asked in the exam.